



M Covert

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*Admitted only in Maryland *Admitted only in Virginia *Admitted only in Texas

April 30, 2002

WRITER'S DIRECT NUMBER: (202) 371-2560 INTERNET ADDRESS: resmond@skgf.com

Box Missing Parts

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Non-Provisional Patent Application

Appl. No. 10/026,952; Filed: Décember 27, 2001

Primers and Methods for the Detection and Discrimination of For: **Nucleic Acids**

Inventors

NAZARENKO et al.

Our Ref:

0942.4980006/RWE/AGU

Art Unit:

1623

Sir:

In reply to the Notice to File Missing Parts of Application--Filing Date Granted and Notice to Comply with Sequence Rules dated January 31, 2002, Applicants submits the following documents for appropriate action by the U.S. Patent and Trademark Office:

- PTO Fee Transmittal Form PTO/SB/17
- Petition for Extension of Time Under 37 C.F.R. § 1.136(a)(1); 2.
- Copy of the Notice to File Missing Parts; 3.
- Preliminary Amendment; 4.
- 5. Letter to PTO Draftsman: Submission of Formal Drawings;
- 60 sheets of Formal Drawings with (Figures 1A-1B, 2A-2B, 3-4, 5A-5C, 6. 6-12, 13A-13B, 14-15, 16A-16B, 17A-17B, 18A-18D, 19A-19D, 20A-20D, 21, 22A-22B, 23, 24A-24B, 25A-25B, 26A-26B, 27A-27C, 28-38, 39C, 40, 41A-41B, 42A-42D, 43A-43B, 44A-44B, 45, and 46); 39A-

Commissioner for Patents April 30, 2002 Page 2

- 7. Paper and computer readable copy of Sequence Listing;
- 8. Five (5) Original Declarations, executed by the inventors;
- 9. An original executed Power of Attorney from Assignee;
- 10. Assignee 37 C.F.R. § 3.73(b) Statement with copy of Five (5) Assignments attached;
- 11. Our Check No. 35016 for \$3,732.00 to cover:
 - \$ 740.00 Filing Fee for Patent Application (37 C.F.R. § 1.16)
 - \$ 110.00 Extension of Time fee;
 - \$2,752.00 Fee for excess claims (37 C.F.R. § 1.16); and
 - \$ 130.00 Surcharge for late filing of Declaration (37 C.F.R. § 1.16); and
- 12. Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier.

In accordance with 37 C.F.R. § 1.821(f), the paper copy and the computer readable copy of the Sequence Listing submitted herewith are the same. In accordance with 37 C.F.R. § 1.821(g), the submission of this sequence listing includes no new matter.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. If extensions of time under 37 C.F.R. § 1.136 other than those otherwise provided for herewith are required to prevent abandonment of the present patent application, then such extensions of time are hereby petitioned, and any fees therefor are hereby authorized to be charged to our Deposit Account No. 19-0036.

Respectfully submitted,

Kobutw. Esmond

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Robert W. Esmond

Attorney for Applicants Registration No. 32,893

Enclosures

SKGF_DC1 8750 1

PTO/SB/17 (10-01)
Approved for use through 10/31/2002 OMB 0651-0032
Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE officetion of information unless it displays a valid OMB control number.

Under	the Paperwork Reduction Act of 1995, no persons	are required to respond to a collection of information	unless it displays a valid OMB control		
O CETTE		Complete if Known			
	RANSMITTAL	Application Number	10/026,952		
APR 3 D 2002 & for	FY 2002	Filing Date	December 27, 2001		
	F 1 2002	First Named Inventor	Irina NAZARENKO		
Patent fees are	subject to annual revision.	Examiner Name	To be assigned		
TE TRANS	- Sabject to armaar revision.	Group Art Unit	1623		
TOTAL AMOUNT OF PAYMENT	(\$)3,732.00	Attorney Docket No.	0942.4980006/RWE/AGU		

METHOD OF PAYMENT (check one)			FEE CALCULATION (continued)							
The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to.		3. ADDI Large	FIONAL Entity	FEES Small	Entity	-				
Deposit Account Number	19-0036		Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee D	escription	Fee paid	
Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C	c.]	105	130	205	65	Surcharge - late filing	fee or oath	\$130 00	
Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17			127	50	227	25	Surcharge - late provisiona	l filing fee or cover sheet		
			139	130	139	130	Non-English specifi	cation		
Applicant claims small entity status See 37 CFR 1 27			147	2,520	147	2,520	For filing a request for	or <i>ex parte</i> reexami	nation	
			112	920*	112	920*	Requesting publication action	of SIR prior to Examine	er	
2. Apayment Encl	osed.		113	1,840*	113	1,840*	Requesting publication	of SIR after Examiner	action	
Check Credit card Money Order Other* *Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036			115	110	215	55	Extension for reply within first month		110 00	
FEE CALCULATION			116	400	216	200	Extension for reply w	tension for reply within second month		
1. BASIC FILING FEE		-	117	920	217	460	Extension for reply w	ithin third month		
Large Entity Sma Fee Fee Fee			118	1,440	218	720	Extension for reply w	vithin fourth month		
	Fee Fee Description Fee Paid e (\$)	i	128	1,960	228	980	Extension for reply w	uthin fifth month		
101 740 201	370 Utility filing fee 740 00		119	320	219	160	Notice of Appeal			
106 330 206	165 Design filing fee		120	320	220	160	Filing a brief in suppo	ort of an appeal		
107 510 207	255 Plant filing fee		121	280	221	140	Request for oral hea	ring		
108 740 208 114 160 214	370 Reissue filing fee 80 Provisional filing fee		138	1,510	138	1,510	Petition to institute a	public use proceed	ling	
114 100 214	80 Provisional filing fee		140	110	240	55	Petition to revive - ur	navoidable		
SUBTOTAL (1) (\$) 740 00		4	141	1,280	241	640	Petition to revive - ur			
			142	1,280	242	640	Utility issue fee (or re	eissue)		
			143	460	243	230	Design issue fee			
			144	620	244		Plant issue fee			
			122	130	122	130	Petitions to the Comi	missioner		
2. EXTRA CLAIM FEES Fee from Extra below Fee Paid		e Paid	123	130	123	130	Petitions related to p	rovisional application	ons	
Total Claims <u>92</u> - 20** = <u>72</u> X <u>18</u> = 1,296 00		o	126	180	126	180	Submission of Information Disclosure Stmt		tmt	
Indep. Claims <u>17</u> - 3** = <u>14</u> X <u>84</u> = <u>1,176.00</u>)	581	40	481	40	Recording each pate property (times numb			
Multiple Dependent <u>280</u> = <u>280</u>			146	740	246	370	Filing a submission a (37 CFR 1 129(a))	ifter final rejection		
Large Entity Small Fee Fee Fee Code (\$) Code	Entity Fee Fee Description (\$)		149	740	249	370	For each additional in (37 CFR 1.129(b))	nvention to be exar	mined	
103 18 203	9 Claims in excess of 20		179	740	279	370	Request for Continue	ed Examination (RC	CE)	
102 84 202	42 Independent claims in excess of 3		169	900	169	900	Request for expedite	d examination of a		
	140 Multiple dependent claim						design application			
108 84 209	**Reissue independent claims over patent		Other fee (specify).						
110 10 210 9 Heissue claims in excess of 20 and over		Other fee (specify)							
SUBTOTAL (2) (\$) 2,752 00		*Reduced by Basic Filing Fee Paid								
	paid, if greater, For Reissues, see above			SUBTOTAL (3) (\$) 240 00						
SUBMITTED BY				Complete (if applicable)					olicable)	
Name (Print/Type) Robert W. Esmond		\	Registration No. (Attorney/Agent)		No.	32,893	Telephone	202-371-2600		
Signature Robert Somen Date April 30,200						April 30,2002				



United States Patent and Trademark Office

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D C. 20231
www.usplo.gov

APPLICATION NUMBER

FILING/RECEIPT DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NUMBER

10/026,952

12/27/2001

Irina Nazarenko

0942.4980006

26111 STERNE, KESSLER, GOLDSTEIN & FOX PLLC 1100 NEW YORK AVENUE, N.W., SUITE 600 WASHINGTON, DC 20005-3934 CONFIRMATION NO. 7365
FORMALITIES LETTER
OC000000007396160

Date Mailed: 01/31/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
 Applicant must submit \$ 740 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).
- Total additional claim fee(s) for this application is \$2752.
 - \$1296 for 72 total claims over 20.
 - \$1176 for 14 independent claims over 3.
 - \$280 for multiple dependent claim surcharge.
- The oath or declaration is missing.
 A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(I) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 3622.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:
 - drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);

05/02/2002 YPOLITE1 00000004 10026952

01 FC:101 02 FC:102 740.00 OF

03 FC:103 04 FC:105

104

1296.00 OP

280: - 180





A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of
the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as
indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a
substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content
of the sequence listing information recorded in computer readable form is identical to the written (on paper
or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR
1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase Patentin Software, call (703) 306-2600
- For Patentin Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

A copy of this notice MUST be returned with the reply.

Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE



LTI 246.4 CIP SKGF Ref: 0942.4980006/RWE/AGU

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: 1) Irina NAZARENKO, 2) Ayoub RASHTCHIAN, 3) Joseph SOLUS, 4) Richard M. PIRES, 5) Marlene DARFLER, 6) Gulilat GEBEYEHU, 7) Mekbib ASTATKE				
Applic	ation No./Patent No.: 10/026,952 Filed/Issue Date: December 27, 2001			
Entitle	d: Primers and Methods for the Detection and Discrimination of Nucleic Acids			
	Invitrogen Corporation , a Corporation (Name of Assignee) , (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)			
states t	hat it is:			
1. [X]	the assignee of the entire right, title, and interest, or			
2. []	an assignee of an undivided part interest			
in the p	natent application/patent identified above by virtue of either:			
A. [X] OR	An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
В.[]	A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:			
	1. From: To: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
	2. From:To:To:The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
	3. From:To:			
	The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
	[] Additional documents in the chain of title are listed on a supplemental sheet.			
Xl Cor	ones of assignments or other documents in the chain of title are attached.			
,j eop	[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]			
The und	ersigned (whose title is supplied below) is empowered to act on behalf of the assignee.			
Date: _	3/13/2002			
Name: _	Alan W. Hammond			
Title:	Chief Intellectual Property Counsel			
Signatur	c: Cla Hanna			